

	Beaver Electrical Machinery Ltd.	
	No: 014498	
	Date: May 8, 2025	

Technical Documentation

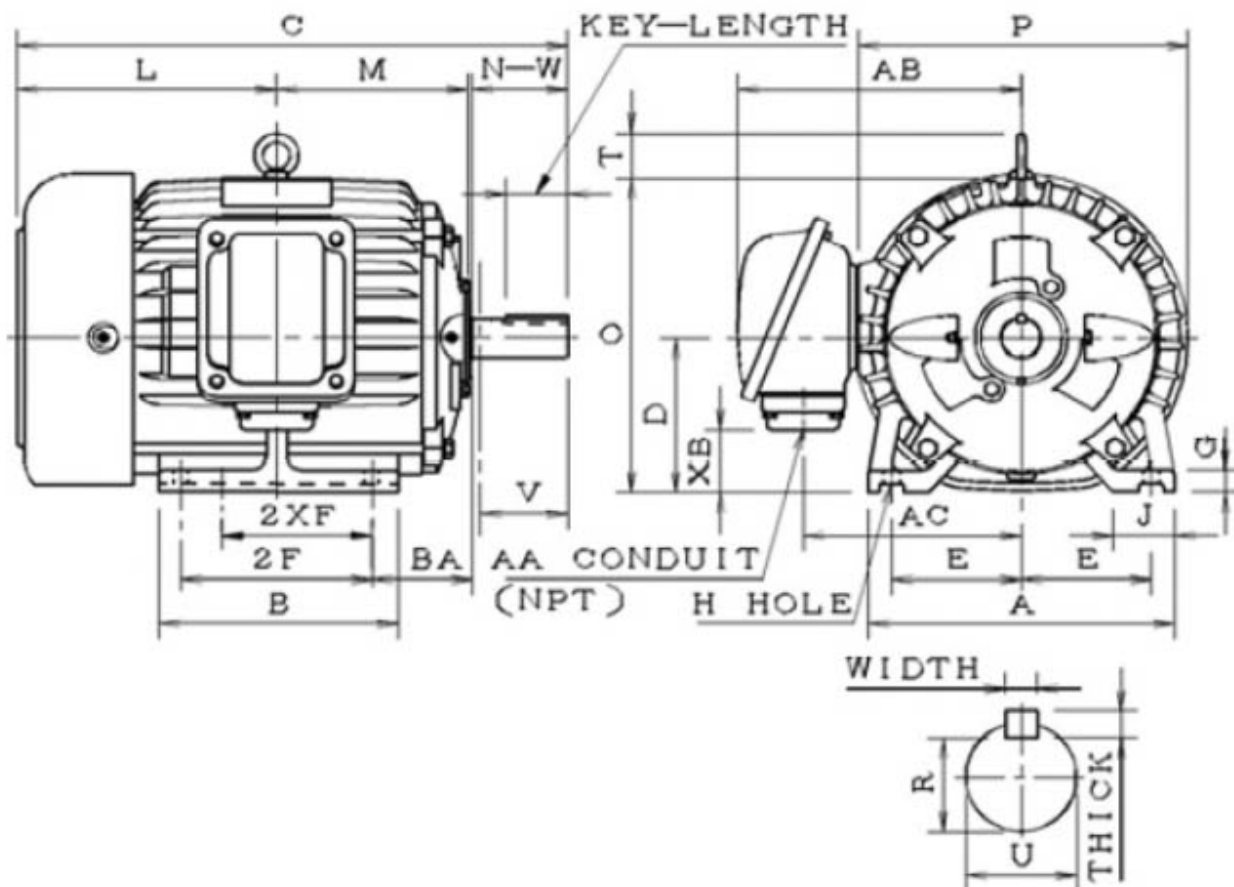
APH00345-841
Advantage Plus IEEE 841 | AEHH8B

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Dimensional Drawing

Catalogue	Type	HP	RPM	Voltage	Hz	Frame Size
APH00345-841	AEHH8B	3	1800	575	60	182T



Mounting					A	B	C	CL1	CL2	D	G
E	2F1	2F2	H	BA							
3.75	4.5		0.41	2.75	8.82	5.88	14.89			4.5	0.65

J	K	L	M	O	P	T	Terminal Housing			
							AA	AB	AC	XB
1.75		7.14	4.87	9.17	9.61	1.3	NPT3/4"	8.31	6.38	1.86

Shaft Extension			Key			Keyseat
N-W	U	V	Width	Thick	Length	R
2.75	1.125	2.7	0.25	0.25	1.78	0.986

Bearings		Weight Lbs	Drive Method	Dimensions
DE	NDE			
6306ZC3	6306ZC3	99	Direct Coupling / Belt Drive	Inches

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Technical Data Sheet

Motor Type: AEHH8B	Catalogue No: APH00345-841
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
3	4	1755	182T	575	60	3
Enclosure	Ins. Class	Service Factor	Time Rating	NEMA Design	Rated Amb.	Rated Altitude
TEFC	F	1.15	Continuous	B	-40 to 40 °C	<1000 m

Typical Performance

Efficiency (%)				Power Factor (%)		
Full Load		3/4 Load	1/2 Load	Full Load	3/4 Load	1/2 Load
Nom.	Min.					
89.50	87.50	89.50	87.50	84.00	79.50	68.50
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
8.98	225	175	345	1.1	3.0	25.60
NEMA KVA Code	Inertia (WR ²)			Safe Stall Time (s)		Noise Level Sound Press. dB(A)
	Rotor (lb-ft ²)	NEMA Load (lb-ft ²)	Max. Allowable (lb-ft ²)	Cold	Hot	
K	0.404	17.00	74.00	54	38	52.0

VFD Duty Information

MAX HP	Current (A)	Speed Range			VFD		S.F.
		CT	VT	CHP	Carrier Hz	Type	
3	2.99	6-60Hz	3-60Hz	60-120Hz	3-6kHz	VPWM or CPWM	1.0

Hazardous Locations Information

Additional Certifications

CSA Certified	Other Certification
Class I, Div 2, Groups B, C & D Class I, Zone 2, Groups IIB+H2, IIB & IIA	
Temp Code (Sinewave / VFD)	T3C / T3C

Additional Information

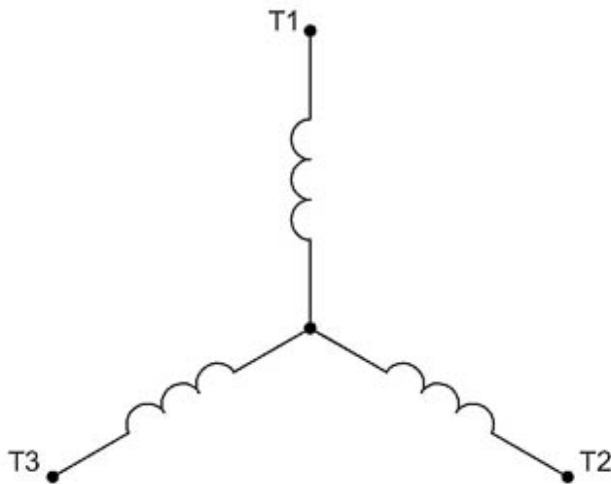
Bearings		Approx. Weight
DE	NDE	lbs
6306ZC3	6306ZC3	99

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Nameplate Drawing

Advantage Plus IEEE 841					
TYPE	AEHH8B		CAT. NO.	APH00345-841	
OUTPUT	3 HP 2.24 kW		FRAME	182T	TEFC
R.P.M.	1755		POLE	4	INS. F
VOLTS	575		PHASE	3	Hz 60
AMPS	3.0		CODE	K	S.F. 1.15
AMBIENT	40 °C		NOM. EFF. 89.50		MIN. EFF. 87.50
BEARINGS	6306ZC3 / 6306ZC3				RATING Cont.
SER. NO.	TBD		DESIGN	B	WT. 99 LBS
PWM VFD DUTY	VT	CT	CP		S.F.
	3-60Hz	6-60Hz	60-120Hz		1.0

Connection Diagram

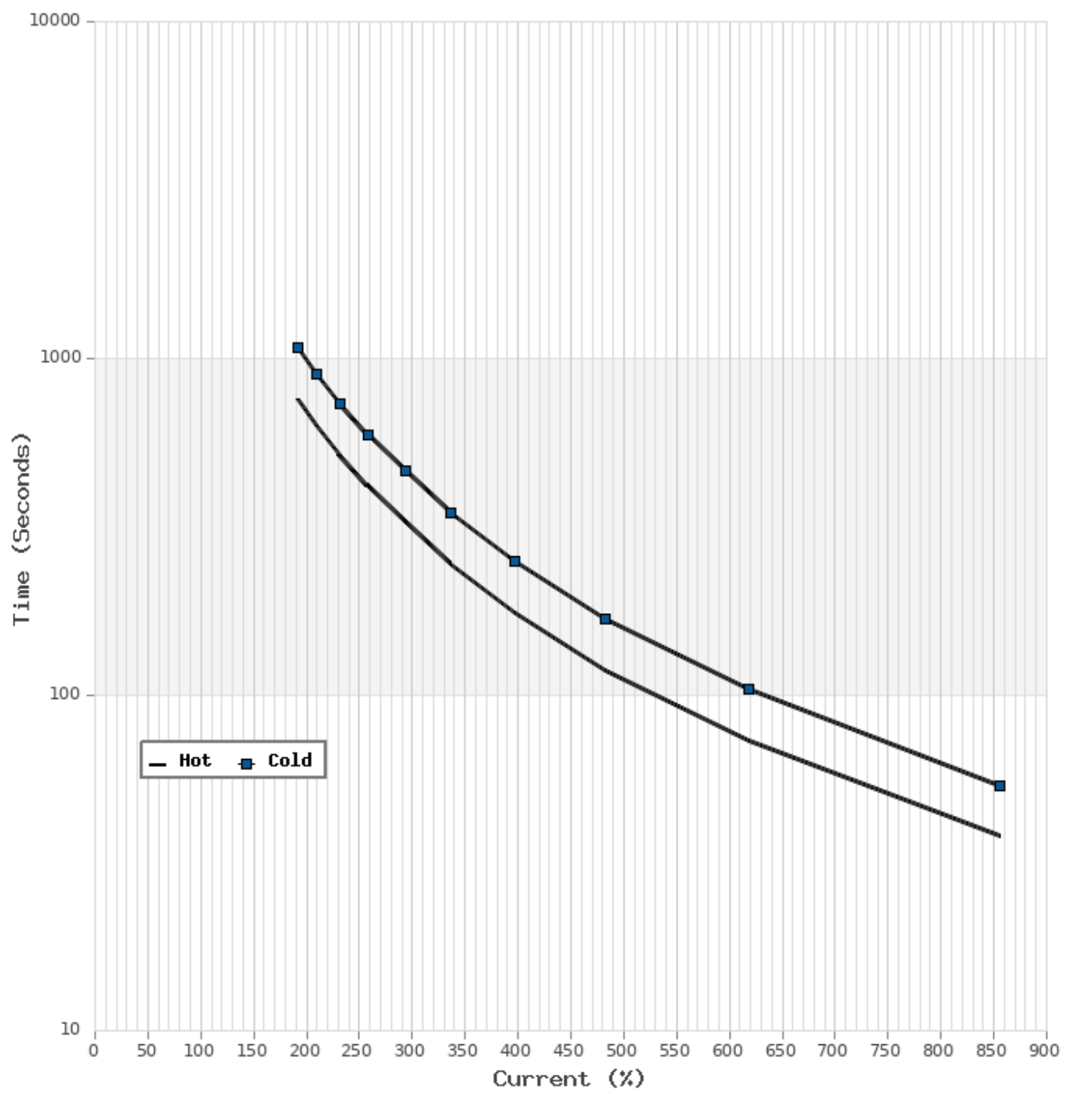


3 LEAD		SINGLE VOLTAGE			WYE
VOLTAGE	CONN.	L1	L2	L3	
-	WYE	1	2	3	

WD_3Y

Thermal Limit Curves

Motor Type: AEHH8B		Catalogue No: APH00345-841		Family: Advantage Plus IEEE 841	
HP	3	Safe Stall Time		Full Load A	3.0 A
Voltage	575V 60Hz	Hot	38 s	% Inrush	856 %
RPM	1800	Cold	54 s	Locked Rotor A	25.60 A



T-N and I-N Curves

Motor Type: AEHH8B		Catalogue No: APH00345-841		Family: Advantage Plus IEEE 841	
HP	3	Full Load T	8.98 lb-ft	Full Load A	3.0 A
Voltage	575V 60Hz	Locked Rotor T	225 %	Locked Rotor A	25.6 A
RPM	1800	Pull Up T	175 %	Break Down T	345 %

